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OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

1 ***BEGIN TAPE NO. 53, SIDE A***

2 VOICE: [Inaudible] "equipment operator.

3 VOICE: Hold on.

4 VOICE: Thank you.

5 VOICE: [Inaudible.]

6 VOICE: It's probably the best one he's got

7 handwritten.

8 VOICE: Yeah. These aren't transcript type. This
9 is what [inaudible.]10 VOICE: It has to be what he had doing his LER, I
11 think. I believe that's what he had.12 *Am* VOICE: Yeah. This is because of the LER we're
13 getting ready to submit.

14 VOICE: Okay.

15 VOICE: [Inaudible.]

16 VOICE: Yeah.

17 *Swartz* VOICE: [Inaudible.] Alan came in my office. He's
18 here with me. He says that you'd like to talk to Duane
19 DeLoche or Slim Whitman.20 *Am* VOICE: Is Bill Shipman in with you?21 *GH* VOICE: No. He's down on another phone
22 downstairs.

23 VOICE: Okay.

24 VOICE: We --

9508140212 950718
PDR ADOCK 05000424
T PDR25 *Swartz* VOICE: I have Duane here.

NUCLEAR REGULATORY COMMISSION

Docket No. 50-424/425-OLA-3

EXHIBIT NO.

In the matter of Georgia Power Co. et al., Vogtle Units 1 & 2

☐ Staff ☒ Applicant ☐ Intervenor ☐ Other☒ Identified ☒ Received ☐ Rejected Reporter *KHW*Date *7/18/95* Witness *Masbaugh*EXHIBIT 36
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1 VOICE: Was Duane one of the operators that was in
2 the --

3 VOICE: That went to the diesel.

4 G.H. VOICE: Duane, let me tell you what -- why -- I've
5 got to sign out this LER on this event.

6 VOICE: Yes.

7 G.H. VOICE: And we're talking the first time the
8 diesel tripped and you went to the diesel.

9 Duane VOICE: Yes.

10 G.H. VOICE: And I don't have it right in front of me,
11 but it -- after the trip, operators [inaudible] engine
12 control panel investigated what caused the trip. This was
13 after the first one.

14 VOICE: Okay.

15 G.H. VOICE: According to the operator, several
16 enunciators were lit. Without fully evaluating this
17 condition, the operator reset the enunciators, and then,
18 during the same shift [inaudible]. Now, the reason they're
19 saying it is this way is, where they can explain it, when
20 they talk about what we were investigating as to why we
21 weren't really sure what tripped it on the first time, and I
22 had had them reword that, and I don't have the rewording,
23 but it said something like this: In order to restore power
24 from [inaudible,] "the operator reset the enunciators without
25 fully evaluating the condition. What I wanted to do is say,

1 Hey, you know, it wasn't he just went down and blindly
2 pushed the damn button.

3 VOICE: Yeah.

4 GH VOICE: He was trying to get the diesel going.
5 Now, what all -- and I think all that's correct [inaudible],
6 but what I'm trying to do is come up with an additional
7 sentence to put right in front of that, something to the
8 effect of, The operator briefly looked at several instrument
9 readouts and no problems were noted. There are two key
10 things in that: One, it was briefly -- you only looked at
11 two, like like I'm sure you read the panel.

12 Duane VOICE: Yes.

13 GH VOICE: And did you looked at, say, jacket
14 temperature or pressure?

15 Duane VOICE: I glanced at all of the parameters on the
16 panel to make sure they were okay. I also, looked at the
17 engine physically itself to make sure there were no parts
18 flying apart somewhere, and that's the reason it wasn't
19 running.

20 GH VOICE: And you did that before you made that
21 [inaudible] panel, right?

22 Duane VOICE: Yeah. I walked by the diesel, looking at
23 it on the way in. Even though it's dark, if there was a
24 part laying anywhere, you would know it.

25 GH VOICE: But you actually looked at the gages and

1 you didn't see anything abnormal.

2 *Dune* VOICE: Right.

3 GH VOICE: See, I don't want to say that you did a
4 thorough look, but, you know, I've operated myself and I
5 know that you just don't go out here and push the dang
6 button without [inaudible.] Do you think it's a true
7 statement that you briefly observed or looked at several of
8 the instrument readouts and noted no problems? I didn't say
9 that there was a problem, I just think if it says you looked
10 at several of the input readouts briefly, and you didn't
11 know the problem. Is that a truthful statement?

12 *Dune* VOICE: Yes, sir.

13 GH VOICE: See, if you just didn't look right -- the
14 way this thing read to begin with, it looks like you just
15 went down there and closed your eyes and pushed the reset
16 button.

17 *Dune* VOICE: Yeah, I read that one already.

18 GH VOICE: And that's not right.

19 *Dune* VOICE: No.

20 GH VOICE: Okay. Well, I just -- you know, I think
21 you all did a good job without talking -- just going down
22 there running that thing [inaudible] -- you know, if there
23 had been a problem, running it into the ground and tearing
24 it up. That's one of the strong things I'm trying to say
25 about this thing, is that you all knew you had a little

1 time, and you took the time to check the diesel out,
2 especially after the second trip.

3 *Qum* VOICE: Yes, sir.

4 *GH* VOICE: So I feel comfortable with that. Jim?

5 *Swartz* VOICE: Yes, sir?

6 *GH* VOICE: Do you feel comfortable with what I said?

7 *Swartz* VOICE: Yes, sir. It was never intended to be
8 otherwise. It wasn't intended to have people running in
9 with their eyes closed.

10 *GH* VOICE: I know that, and I know why you put the
11 sentence in there, is where you could explain, Well, we
12 didn't exactly remember what those enunciators were. It was
13 put in there really to lead into, you know, what was said
14 later.

15 *Swartz* VOICE: That's correct.

16 *GH* VOICE: But to the casual reader, he's going to
17 read something else into it. Do you see what I mean?

18 *Swartz* VOICE: You're probably right, yes.

19 *GH* VOICE: And that's why I just wanted to add a
20 little bit in there and restructure the sentence.

21 Okay, fellas. Are we doing ^{optional testing} ~~partial (inaudible)~~

22 *Swartz* VOICE: Yes, we're starting it now.

23 *GH* VOICE: Well, good luck.

24 *Amey Swartz* VOICE: We're more than starting.

25 *Swartz* VOICE: And I'm thinking about going home a little

1 early today.

2 GH VOICE: Ha, ha, ha. Who's that talking?

3 Am VOICE: That was [inaudible.]^{Smutz}

4 GH VOICE: I'd feel bad if the rest of you all go
5 home.

6 ^{Smutz} VOICE: I don't really like this idea of torsional
7 testing. But I haven't successfully fought it, that's for
8 sure.

9 GH VOICE: I understand that. Hey, thanks a lot.
10 And I'm sorry to interrupt you all, but I just wanted to
11 make sure that, you know, we had this as candid as we could.

12 ^{Smutz} VOICE: Okay. Very good.

13 GH VOICE: Thank you much.

14 ^{Smutz} VOICE: You bet. Bye now.

15 VOICE: Bye.

↓ 16 VOICE: [Inaudible.]

17 Cash VOICE: I know about high [inaudible] rates.

18 VOICE: Three percent until you get your fuel

19 conditioning out of --

20 Cash VOICE: Never heard of a [inaudible] withdrawal
21 rate, three steps per hour.

22 ^{Smutz} VOICE: What are you talking about?

23 VOICE: That's what I'm asking him.

24 VOICE: What are you talking about?

25 VOICE: [Inaudible] control rate.

1 VOICE: That's the first time I'd ever heard about
2 it.

3 VOICE: For the restart.

4 *Cash* VOICE: From that, we just gave Bill Meister a
5 note that says, Hey, [inaudible]"control room, that greater
6 than 20 percent an hour, three percent an hour. We knew
7 that.

8 VOICE: Yeah.

9 VOICE: Greater than 50 percent an hour is three
10 steps per hour.

11 VOICE: Until rods [inaudible.]

12 VOICE: I've never heard this one before.

13 VOICE: [Inaudible.]

14 VOICE: I just thought maybe you were familiar
15 with it.

16 VOICE: I've never heard it.

17 *Lug* VOICE: State that requirement again?

18 *Cash* VOICE: Greater than 50 percent an hour, maximum
19 water withdrawal rate of three steps per hour.

20 VOICE: I hadn't heard of that, either.

21 VOICE: Bill would be --

22 *D. Carter* VOICE: [Inaudible] operator talked to -- all the
23 supervisors talked -- [inaudible]"sent a copy of the letter,
24 yes.

25 VOICE: I've never heard about it.

1 VOICE: The entire reason that we have rods
2 [inaudible].

3 VOICE: I can't help you.

4 VOICE: I'll tell you what we'll do. We'll go get
5 the rods out of the core [inaudible].

6 [Pause.]

7 JGA VOICE: Well, the way -- Alan Mosser^{deugh} [ph] "just
8 walked in, George, so I'll put it on the speaker. The way
9 my people came up with greater than 20 starts is they took
10 the 19 and 18 starts and, based on the April 9th letter, and
11 they went and checked and found out how many starts they had
12 subsequent to April 9th. And that's why you can say greater
13 than 20.

14 GB VOICE: I think you can greater than 20. You
15 know, we even added more starts recently. We had a start
16 last -- the other night.

17 McCay VOICE: We need to be sure that we build the
18 number of starts after we've completed the comprehensive
19 control test program.

20 JGA VOICE: I do have people right now going out
21 through -- my people going out through the RO's logs --

22 GB VOICE: From my numbers that I presented at the
23 conference, they were verified correct by Jimmy Paul ^{Kash} _{Cash}
24 who went through the operator's logs.

25 McCay VOICE: You ought to use those numbers.

1 GB VOICE: Okay. So we'll say greater than those
2 numbers that were used in the conference.

3 Mc Gay VOICE: Those numbers you used in the conference
4 were after they had completed the comprehensive test of the
5 control system on each diesel.

6 GB VOICE: That is correct. Those numbers were not
7 before that time.

8 J Stanger VOICE: Let me make sure I'm clear. Do we want to
9 say [inaudible] the comprehensive test program? Do we want to A
10 to say that kind of stuff, or do we want to just say --

11 GB VOICE: Yes, you can say that.

12 Mc Gay VOICE: That's pretty clear.

13 Amy VOICE: I don't think [inaudible.]
14 They better look at those logs.

14 VOICE: Right.

15 VOICE: [Inaudible.]

16 VOICE: [Inaudible.]

17 VOICE: Yes, we're done on that.

18 VOICE: [Inaudible.]

19 VOICE: We're happy with that one.

20 VOICE: The wording was [inaudible.]

21 Amy VOICE: We're going to add something. There's a
22 new sentence going in front of --

23 Shigley VOICE: Eighteen or 19? What did you have in your
24 presentation, George? Seventeen and 18 or 18 and 19?

25 GB VOICE: Eighteen and 19.

1 *Ship* VOICE: When we say greater than 18, we mean more
2 than 18.

3 *GB* VOICE: Greater than 18 would be good.

4 *Ship* VOICE: Fine.

5 *McCoy* VOICE: Greater than 18, more than 18. One of
6 them.

7 VOICE:

8 *Shipman* VOICE: Okay. I understand ^{*Low*} ~~that John~~ and Al, if
9 Al just walked in, I understand that George just got off the
10 phone with Jim Schwartzwelder and the operator and he is
11 satisfied now with the -- what the operator did when he
12 walked in the room.

13 *Am* VOICE: Yeah, I was down there, Bill, and I just
14 ran up here. Yeah, we're done with that one.

15 *Shipman* VOICE: Apparently -- I don't know how George
16 knows all this stuff, but apparently he -- somehow he knew
17 more about it than you and I did.

18 *McCoy* VOICE: Well, he went down to the plant and
19 [inaudible.]

20 *Am* VOICE: Well, no, I don't -- not really.

21 *Shipman* VOICE: It sounds like to me the operator said he
22 looked at something more than the enunciators.

23 *Am* VOICE: He confirmed with the operator that the
24 operator did a cursory review of instruments and the
25 operator's comfortable with, you know, some statement that's

1 kind of like that.

2 Shipman VOICE: He didn't lead the operator, did he?

3 *Am* VOICE: I don't think so. ^{JGA} Not very far.

4 Shipman VOICE: Well, you don't need to lead him at all.
5 He might get an opportunity to testify at some time about
6 that. So you all don't let Mr. Harrison lead the operator.

7 VOICE: I'm sure that we [~~inaudible~~] put words in
8 his mouth. ^{GH} But, no, he said he read them, because he had
9 [inaudible.]

10 VOICE: Okay.

11 *GH* VOICE: And Jim explained the reason it was put in
12 there, because it ties in later, and Jim said that's the
13 reason. ^{IT WASN'T} ~~They want~~ to make you think that the operators ^{JUST} look
14 ^{WENT DOWN THERE AND CLOSED HIS EYES AND HIT THE BUTTON} at [~~inaudible~~], but the operator said he [inaudible.]"

15 Actually, the operator said that he did both. I've
16 [inaudible] several [inaudible]"the operator says he looked
17 at all the gages, and he didn't see any problems on them
18 gages. He said ^{WALKIN' BY AND} he didn't see any mechanical problems. He
19 said he didn't look at it closely, it was dark, but, you
20 ^{didn't see any reds siter out on the floor.} know, he [inaudible.] But, you know, what we put in there
21 is less than what he verbalized to me.

22 Shipman VOICE: Okay. I know how you are, and I'm just
23 trying to make sure we --

24 *GH* VOICE: ^{I DON'T WANT TO HIT NOBODY,} [~~inaudible~~] I just want to make sure you
25 know what the operators would say.

1 VOICE: Okay. All right.

2 VOICE: Of course, they'd probably say, Well,
 3 *WHAT THE SHIFT SUPERVISOR TELL US TO DO.*
 that's just [~~inaudible~~.]

4 *Shipman* VOICE: Let's see. What other questions do we
 5 got? We got ~~to~~ ^{THEM} start things straightened out.

6 *GH* — *So we got the starts. Oh well we didn't have no trips.*
 VOICE: [~~inaudible~~.]"

7 VOICE: No, not [~~inaudible~~.] What else did we
 8 have, Jack?

9 VOICE: [~~inaudible~~] 08:57 CS.

10 *Shipman* VOICE: Oh, yeah. Okay. The only problem we got
 11 that we got to wrestle with is the time of the -- when the
 12 notification began. We say the emergency director signed
 13 the notification form used to inform off-site government
 14 agencies of the emergency at 08:38 central standard time and
 15 notifications began at 08:57, and Mr. Harrison's question is
 16 what happened between 8:38 and 8:57. What -- does the
 17 "Where it began" mean? Is that where he picked up the ENN
 18 and found out it was disabled or is that --

19 *GB* VOICE: That's the time that the South Carolina
 20 communicated along the receipt of an incoming message from
 21 Plant Vogtle.

22 *GH* VOICE: Let me tell you -- why don't I ask the
 23 question? You know, what -- you have a picture in your mind
 24 of the shift clerk trying to pick up the ENN, and it's dead.
 25 Do you know what I mean?

1 GB VOICE: Yeah.

2 GH VOICE: And then she, or whoever made the decision
3 to start with the back up [inaudible.] Now, so, the way it
4 looks, if we can say that you got on the horn and then
5 [inaudible] an attempt was made to make a notification that
6 the ENN was known to be without power at 8:57 or whatever it
7 was, South Carolina was notified or initiated at 8:57 on the
8 backup ENN, it just reads better. Do you know what I mean?
9 It looks like --

10 GB VOICE: That's right. That's what happened.

11 Yeah, you know --

12 GH VOICE: Well, you and Bill draft up some words to
13 that effect right in there, because that fills in some
14 blanks. It looks good up to you signing the form, and then
15 there's like 15 minutes.

16 GB VOICE: Actually, it's John Hopkins who signed the
17 form because

18 GH VOICE: Hopkins? But then it looks like just.
19 nothing went on, and you know something went on.

20 GB VOICE: Well, she tried to get people and then she
21 couldn't get people, so then went over to the backup ENN and
22 started a roll call, but the roll call really wasn't
23 complete because the South Carolina people, the first time
24 they logged it on their log was, you know, 57, and a couple
25 of people logged that consistently as the times -- that

1 that's the time that the critique team went ahead and
2 decided was probably the most reliable time that the message
3 was starting to come out.

4 *Shipman* VOICE: Okay. George, do you have a copy of --
5 John -- anybody a copy of the LER there?

6 *JGA* VOICE: I have a copy of the LER here.

7 *Shipman* VOICE: [Inaudible.] Why don't you give it to
8 George and let's word engineer displays to take care of the
9 concern that Mr. Harrison had.

10 *GB* VOICE: Let's do it right now and simply say that
11 -- in a sentence that says the, The shift clerk went through
12 the primary ENN, and it had lost power; had to go to the
13 backup ENN, conduct a roll call before the initial message
14 was started at ^{9:57} [inaudible] 9:57. Did you get that, Bill?

15 *Shipman* VOICE: Yes. I'm trying to write what you're
16 reading back.

17 [Pause.]

18 *JGA* VOICE: How do you think we're doing on this
19 critique? Can we do a lot of things on it?

20 *Am* VOICE: Well, we really have [inaudible.]

21 *Shipman* VOICE: Okay. Now, let me -- I got everything I
22 think [inaudible.] The shift clerk went into the primary
23 ENN and found it had lost power. Shift clerk then went to
24 the backup ENN and initiated notification, and I need the
25 last phrase to that.

1 GB VOICE: Initiated notification after roll call.

2 Shipman VOICE: After roll call.

3 GB VOICE: At whatever time. You use an Eastern time
4 in there, so it would be 9:57.

5 Shipman VOICE: Okay.

6 JGA VOICE: The LER had Central time in it.

7 Shipman VOICE: So we got 8:57 Central Standard Time.

8 Okay. I think -- that may not be the exact phrasing that
9 comes out, but that's the data you think we need to put in
10 there and we [inaudible] data that [inaudible.] Okay.

11 Anything else, Jack? Anything else, because I need to get

12 -- Mr. Beckhold

13 Stringfellow VOICE: Okay. We got the thing about what the
14 operator saw in there saw when he went in there, the
15 [inaudible] storage. We got the time. The only thing
16 [inaudible.] I can't think of anything else.

17 Shipman VOICE: George, I don't think we have anything
18 else at this red hot minute.

19 JGA VOICE: Hey, Bill?

20 Ship VOICE: Yeah.

21 JGA VOICE: This is John. Are these all the changes
22 that we're going to make, because I don't think there's
23 anything substantial that needs a PRB.

24 Ship VOICE: I won't make that guarantee, John.

25 JGA VOICE: Okay. So I need to keep somebody on

1 standby to do that.

2 *Shipman* VOICE: Yes, sir. You sure do.

3 *JGA* VOICE: Okay. I'll have whoever is going to be on
4 standby give Jack a call in case, you know, this drags on
5 till 7:00 or 8:00 at night or something like that.

6 *Shipman* VOICE: But it's not going to drag on that long.

7 *McCoy* VOICE: We'll be done with it in about 30 minutes
8 with the changes, and we'll call you back and let you know
9 and you can make a judgment on whether we have to go back
10 and go back to the PRB.

11 *JGA* VOICE: Okay. That's fine.

12 *GB* VOICE: Hey, Bill?

13 *Ship.* VOICE: Yes, sir.

14 *GB* VOICE: You know my afternoon plans, so I need to
15 run.

16 *Shipman* VOICE: All right. Well, John, Al, could one of
17 you all give us just a 30-second update on where we are with
18 the test?

19 *GB* ~~Always~~ VOICE: I spoke to the control room, and they were
20 about to close the breaker, and so the test was proceeding.

21 *Am* VOICE: I think that's been done at 1800 RPMs and
22 they had gotten the negative sequence. They were exciting,
23 using the temporary ^{circuiting} ~~exertation~~ equipment and they had
24 gotten up to like -- I think it was like two-and-a-half
25 negative sequence, and everything was going fine.

1 *Mcoy* VOICE: Have we seen any --

2 *Am* VOICE: No, anomalies.

3 *Mcay* VOICE: No anomalies yet.

4 *Am* VOICE: No anomalies, and they're going to do a
5 little more exhortation, and then they take the machine up
6 to a higher RPM.

7 *Shipman* VOICE: Okay. Thanks, *Alby* John.

8 *JGA* VOICE: Okay. Jack, you're going to call me?

9 VOICE: Yeah. Okay. Bye, folks.

10 VOICE: Bye.

11 *Shipman* VOICE: Goodbye, George.

12 [Pause.]

13 *↓* VOICE: It sounds like he's [Inaudible.]

14 VOICE: [Inaudible.]

15 *Dobby Minard* VOICE: [Inaudible], it will be lost forever.

16 VOICE: Why?

17 VOICE: Because he will not go to the airport and
18 pick it up. It will sit there forever.

19 VOICE: [Inaudible.]

20 VOICE: Why don't we just fax it up?

21 VOICE: We'd like them to modem it and fax the
22 cover sheet.

23 VOICE: [Inaudible.]

24 VOICE: If I modem her [inaudible] letter, sure.

25 VOICE: You know, we can -- she can start working

*1st instance
Reagent*

1 on it. Whatever she has to do with it, we can fax it up to
2 her.

3 VOICE: [Inaudible.]

4 VOICE: There's a cover letter on it.

5 VOICE: But she has to send it out.

6 VOICE: [Inaudible.]

7 VOICE: If we [inaudible] tomorrow morning after
8 it's signed, it will get there tomorrow afternoon. She can
9 put her letter on it and get it to [inaudible.]

10 VOICE: [Inaudible] will not get to the airport
11 because I can't possibly get it out earlier.

12 VOICE: [Inaudible] get all the information, and
13 send it out without all the information.

14 VOICE: Yes. What is this?

15 *Gus Williams* VOICE: We can't get ^{cents per} [inaudible] kilowatt.

16 VOICE: They don't know how to calculate for
17 kilowatt.

18 VOICE: They don't know how to calculate for
19 kilowatt for either one.

20 VOICE: All right, because --

21 VOICE: Well, for the month of March.

22 VOICE: And they can't start -- they haven't
23 [inaudible] for the break in the cycle and where the time in
24 between cycles --

25 VOICE: Okay. Am I going to get in the

1 [inaudible] over this one now, too?

2 VOICE: Why?

3 VOICE: I don't know. I just [inaudible.]

4 VOICE: [Inaudible] go to the airport.

5 VOICE: Hey.

6 VOICE: Hey.

7 VOICE: Can you find a way home?

8 *Brunnlike* VOICE: Thirteen minutes after everybody's left.
9 I'll try.

10 VOICE: I'll be able to leave in a half-an-hour.

11 VOICE: Do you got some emergency going on?

12 JGA VOICE: No. I just have to sit here for a half-
13 an-hour as punishment for crimes in a previous life, is
14 really all I can think of. Is that a good assessment, Alan?

15 VOICE: Hey, he's getting off light.

16 *Can we* VOICE: You're getting off light.

17 VOICE: [Inaudible.]

18 VOICE: How's that?

19 *Paul Brunnlike* VOICE: Have you guys figured out how come the
20 diesel starts when it ain't supposed to?

21 JGA VOICE: No. I'm trying to figure out how many
22 times the diesel started, but that's irrelevant, too. It's
23 just that corporate's reviewing the LER on the site area
24 emergency, and I got to tell them whether we need to take it
25 back to a PRB. And I've already determined, regardless of

1 what they change, it doesn't need to go back to PRB, but I
 2 can't tell them that until after the fact, and they're going
 3 to call me in a half an hour. I told you it's for crimes in
 4 a previous life. I would have tried to call you, but I've
 5 been talking to some guy named ^{Bockhold} Bacal and -- what's that
 6 guy's name? Harrison? Harrison and McCall and ~~Kimlin~~ ^{Coy} for
 7 the last 35 minutes. ^{Shipman}

8 VOICE: [Inaudible.]

9 VOICE: Sorry.

10 VOICE: I'll call you back.

11 [Noise, phone rings.]

12 [Background noise, inaudible voices.]

13 [Pause.]

14 VOICE: I'm trying to get through.

15 VOICE: Hello. What are you guys doing? I'm not
 16 off yet. It sounds like I [inaudible] "try and get out of
 17 here.

18 [Pause.]

19 [Noise.]

20 ^{Shipman} VOICE: -- and they should not be included because
 21 they were part of the returning to service of the diesel
 22 [inaudible] "the overhaul, and this count only included those
 23 starts after we had calibrated all these sensors. John, you
 24 heard George ^{BOCKHOLD'S} [inaudible]'s logic.

25 ALM VOICE: Yes, but what I'm is, let's say we had ten

1 starts on the machine between the 20th and the ten we
2 declared it operable or completed our logic testing, you
3 know, and then interspersed in there on the -- maybe the
4 third, fifth and sixth starts were failures, you know, then
5 I think what we're saying is we would start counting at the
6 ten point, if that was an example.

7 *Shipman* VOICE: All right. We would ^{dis-} ~~just~~ count those
8 starts prior to when we did that calibration.

9 *Am* VOICE: So we want to start it after we completed
10 the logic, the logic test?

11 *Shipman* VOICE: What I understood that George had done was
12 started after we completed the recalibration all the
13 instrumentation. That's when we ought to have, you know, as
14 far as that instrumentation is concerned, that's when we
15 ought to have had direct set points and good instruments.
16 That's what we're trying to show, that the unit starts --
17 when that's been done correctly, that the unit starts
18 reliably, starts and runs reliably. Does that make sense?
19 Can we get to that data?

20 *Am* VOICE: We have the data. The question is, is
21 what's that date and time? You know, as soon as we get to
22 the point at which we want to start counting, we can get the
23 count pretty quick.

24 *JGA* VOICE: Well, not pretty quick, but --

25 *Shipman* VOICE: How do we get to that point?

1 *Am* VOICE: You know what? I think part of the thing
2 we did is we went in and, you know, we changed out a bunch
3 of switches, we went in and then did logic tests, we went
4 into the ~~other~~ ^{under} voltage tests, and then we finally ran the
5 surveillance on the machine, and at that point that we
6 completed the surveillance on the machine, we called the
7 machine operable. So the question again comes back to at
8 what point are we going to start counting.

9 *Shipman* VOICE: Well, George said he started counting
10 after we had completed the instrumentation recalibration,
11 okay? So that's one point we can start counting, if we can
12 define that point. I can't define it. I don't know when
13 that was. Somebody generated the sort of data that
14 generated the numbers 18 and 19 to George on that basis.

15 *Paul died*
15 VOICE: Jim calls [inaudible] -- let me go
16 downstairs and [inaudible.] --

17 *JGA* VOICE: Okay. I'm trying to get Schwartzwelder *up*
18 here.

19 VOICE: Schwartzwelder? Okay.

20 *Shipman* VOICE: Okay. One other thing we could do, Al,
21 saying we still continue to have problems with trying to
22 define this. We could back away from this completely, and
23 change this to say how many starts we've had since we
24 declared the diesel operable.

25 *Am* VOICE: Yes, that --

1 JLA VOICE: That would be more --

2 Am VOICE: That's easy to define. We just go into
3 ^{ops} [inaudible] ^{LCO's} the [inaudible] and find out when they cleared
4 the ^{LCO} ~~LCR~~, and we'll know that point real easy. That's an
5 easy point to find. I think the other point we'll have to
6 find by talking to Jimmy Paul ^{Cash} ~~Kash~~.

7 Shipman VOICE: The problem with that is that that number
8 is going to be significantly less, I think, than what George
9 told Mr. Ednetter, and, you know, it's going to create a
10 selling job for me, I think, but eventually, that the only
11 way we can tell a valid story that, you know, we can defend
12 if somebody calls ^{Alex Mosbough} ~~Ellen Mausbaum~~, Bill Shipman and John
13 ^{AUFDEN KAMP} ~~Hopkins~~ again to testify. That's the story I want to tell.

14 Aw VOICE: Well, I think -- you know, let me try some
15 logic here. We got these two failures, and now John says
16 there are three failures. You know, we're kind of saying,
17 Hey, those are not valid failures, you know, because we were
18 coming out of maintenance on the machine and had yet to
19 declare it operable. That's how and why we're discounting
20 those failures.

21 Shipman VOICE: So we have yet to determine that coming
22 out an outage on the machine, we had to go and basically do
23 a complete set of recalibrations of the ^{instrument} ~~incident~~. That was
24 the logic that George used, not that we were declaring it
25 operable because we obviously had ^{NT} ~~declared~~ it operable.

1 *Am* VOICE: Well, one of the failures was when we were
 2 doing the, you know, an eight-hour loading run. I would
 3 sure hope to hell think that we had calibrated the
 4 instruments before we did an eight-hour loaded run.

5 *Shannon* *EB* *Am* VOICE: Well, not according to George. We hadn't
 6 recognized the need to go back and redo all of them. Is
 7 that not what he said to John ~~even though~~ ^{*add linkage*}

8 *JCA* VOICE: That's what I understood.

9 *Am* VOICE: I'm just thinking from the standpoint of
 10 testing logic, you know, you're going to do an eight-hour
 11 loaded run on the machine, you know, obviously the component
 12 testing ought to be done at that point.

13 *Shannon* VOICE: You know, well, hey ^{*on 1A*} obviously we thought
 14 we had done everything we needed when we returned it to
 15 service.

16 *JCA* VOICE: It was operable.

17 *Am* VOICE: Yeah. It was declared operable.

18 *Shannon* VOICE: We found out that we hadn't, and George is
 19 saying, ^{*you know*} ~~that~~ Hey, gang, from the time we realized that
 20 1A or 1B, we had to do a complete recalibration and make
 21 sure we had our facts together on all the instruments, we
 22 ^{*had many many*} ~~then gave it a start~~ I'm trying to defend George and --

23 *JCA* VOICE: Well, you know, the bottom line is on the
 24 B diesel, we had done major maintenance on it. We were in
 25 the process of testing to make sure it was working right.

1 During that testing process, we had it fail apparently three
2 times.

3 Once we got all the bugs worked out of it --
4 that's the point we got all the bugs worked out of it that
5 we had -- we had -- and I'm kind of guessing, but 27 starts,
6 because I don't know where the three failures are in the
7 sequence of 27 starts, but we had X number of starts. And
8 George's argument is, after we got all the bugs worked out,
9 we had 18 starts.

10 *Shipman* VOICE: What he's trying to do is he's trying to
11 show by way of this, once you get the bugs worked out, like
12 you say, John, the diesel works.

13 JGA VOICE: Fine. That's right. And that's
14 regardless of the point of declaration of operability or
15 not.

16 *Shipman* VOICE: Fine.

17 JGA VOICE: You know, I think what we discussed on how
18 to handle those, the number of actual diesel starts, how we
19 discussed that before, I think we ought to just leave it at
20 that.

21 *Shipman* VOICE: You say at least 18 times each, huh?

22 JGA VOICE: Yeah.

23 *Shipman* VOICE: Okay.

24 JGA VOICE: I mean, that -- somebody has gone and
25 validated that data, and that's what George presented. The

1 data that's been offered to us does not bring into question
2 that data.

3 VOICE: Okay.

4 JCA VOICE: It tends to support that data. Would you
5 take exception to that ~~one~~ ^{Any}

6 Shipman VOICE: We're going to go with that. Jack
7 [inaudible] this grin from ear to ear.

8 JCA VOICE: The only issue is, we can't let people be
9 misled, think that there were not failures until we started
10 doing that count.

11 Shipman VOICE: And we say that -- we say after the 3-29
12 event, that the ^{CONTROL} ~~flow~~ system with both engines have been
13 subjected to the comprehensive test program. Subsequent to
14 this test program, diesel generator 1A and 1B have been
15 started at least 18 times each, and that no failures or
16 problems have occurred during any of these starts.

17 Am VOICE: When you read it that way to me, Bill,
18 when you talk about the comprehensive test program, you
19 know, I kind of set the philosophy for that down here, is
20 that we would have a test program to, you know, determine
21 root cause and restore operability, and, you know, that kind
22 of sounds like what I talked about down here on our diesel
23 test program, and it sounds like that is kind of
24 establishing the starting point, you know, at least at the
25 point in time after which we did the UV testing.

1 *Shipman* VOICE: Let me add one more additional fact in
 2 here that I think will help us as we struggle with this to
 3 make sure we're not trying to mislead somebody, at least the
 4 people we most want not to mislead, and that's the Region II
 5 folks and ~~LIP~~ ^{ITT} people.

6 Since we started discussing this issue, some half
 7 hour ago or hour ago, ~~that~~ ^{at} whenever it was, since we had an issue
 8 with this [*Not Pat* *Ken* inaudible], ~~I~~ ^{Brockman} went and called Ken Rophman --

9 VOICE: Yeah.

10 VOICE: -- and talked to him about, you know, the
 11 numbers and what the basis of the number was as George
 12 ~~Bowhold~~ ^{Grocker} described it, and asked Ken if he understood that,
 13 you know, and if they had understood that in Atlanta on that
 14 basis, and Ken said, Yes, absolutely we did, and also the
 15 ITT team understands that.

16 JGA VOICE: There's no question, I think, that the ITT
 17 team understands that.

18 *Shipman* VOICE: Which is the basis, as well. So from that
 19 sense, you know, the people we're trying to tell understand
 20 the basis for the number George presented, and we really
 21 aren't changing George's number.

22 JGA VOICE: Jim Schwartzwelder just walked in, too.
 23 He's going to help shed light on various things.

24 VOICE: [Inaudible.]

25 JGA VOICE: Because I'm not sure I can answer --

1 VOICE: Other things he doesn't want to shed any
2 light on.

3 *Shipman* VOICE: Things he doesn't want to be quoted on,
4 right?

5 VOICE: Other things that I'm in the dark --

6 VOICE: That's correct.

7 VOICE: That I'm in the dark on.

8 VOICE: [Inaudible.]

9 VOICE: And I would never hear.

10 VOICE: Well, I don't know if --

11 *JGA* VOICE: I want to go over Pat McDonald's comments
12 with him.

13 VOICE: Okay.

14 VOICE: Well --

15 VOICE: You want to run back through them?

16 *JGA* VOICE: Yeah. Let's just start at the beginning
17 and -- because you can go ahead and read him how you rewrote
18 what the operator said.

19 *Shipman* VOICE: Okay. Well, let me start at the beginning
20 with Pat's comments, and the first one on the ^{*abstract*} [inaudible],
21 Jim, is pretty straightforward. That picked up the fact
22 that we ^{*called it the core*} [inaudible] instead of the RCS. We got that
23 corrected, and [inaudible] agreed that during the time we
24 got the RCS.

25 VOICE: Yes. That comment we've discussed in

1 there.

2 VOICE: Well, we discussed with respect to the
3 analysis [inaudible]"there.

4 VOICE: Yes.

5 VOICE: Okay. That's good.

6 VOICE: Yeah, that's great. Tell him we'll give
7 him an 'at-a-boy for that. Tell Pat we'll give him an 'at-
8 a-boy for that one.

9 *Shipman* VOICE: That's what George wanted him to do.
10 That's what we keep him around here for.

11 The second place, Jim, that Pat had a comment was
12 on description of event, fourth from the last paragraph, and
13 I think this is one that we didn't settle on a while ago,
14 John, that we have to do something with.

15 The statement reads like this, and it's really in
16 the last paragraph before these initial two, I think: The
17 only alarms noted by the control room operator assigned to
18 diesel generator operation were lube oil pressure sensor
19 malfunctioning, fuel oil level high/low alarm.

20 Pat's concern is we open an issue there, and
21 nowhere in the LER do we ever close it by saying these were
22 invalid alarms, they were sensor failures, they were normal
23 for the condition, you know.

24 *Smart* VOICE: Where is that problem? Bill, what
25 paragraph are you in?

1 *Shipman* VOICE: I'm in the fourth from the last, the
2 bottom of the fourth from the last paragraph under
3 description of events. There is also a question at the
4 bottom of the third paragraph from the last one, the third
5 paragraph from the last.

6 *Swartz* VOICE: Wait a minute. I think I see where you
7 are now. Hold on.

8 [Pause.]

9 *Swartz* VOICE: Okay. And the concern is we never closed
10 that up anywhere? Is that what the --

11 *Shipman* VOICE: Right. We opened up something the guy
12 saw, and we never say whether it was valid, invalid,
13 important, not important, you know. It's just left hanging.

14 *Swartz* VOICE: That's right.

15 *Shipman* VOICE: No corrective actions dealing with it.

16 *Shipman* VOICE: [Inaudible] the control system to both
17 diesels have been subjected to a comprehensive test program,
18 period. Subjected to this test program, Diesel Generator 1A
19 and Diesel Generator 1B have been started at least 18 times
20 each, and no failures or problems have occurred in any of
21 these starts, period. John can walk you through all of the
22 discussion. I just don't think I want to go through it all
23 again.

24 JCA VOICE: Well, why not, Bill?

25 *Shipman* VOICE: I've been around that tree so many times

1 today.

2 JGA VOICE: All right. It's getting soggy around
3 there.

4 Shig VOICE: It sure is.

5 JGA VOICE: Okay.

6 Shig VOICE: Okay, fellows. I appreciate you all's
7 help.^{ing} Hang with us on this. I think I said earlier that
8 the thing has ^{such} a political impact that ^{Ken Pat and George} [inaudible] wanted to
9 fine-tune it for technical as well as political
10 implications.

11 Swartz VOICE: Yes. It reads somewhat like we might be
12 sending a direct copy to the Government.

13 Shigman VOICE: [Inaudible], and probably to the Secretary
14 of Energy and --

15 Swartz VOICE: I understand.

16 VOICE: Other people.

17 JGA VOICE: Yeah. I got to call some guy named Bush
18 that lives in the White House. He wanted me to fax him a
19 copy.

20 Shigman VOICE: I never told you all this, but the day of
21 the incident, and five different times since then, I've
22 gotten a call from a fellow named Dick Olde, who works for a
23 guy who works for the Secretary of Energy Watson.

24 Swartz VOICE: Is that right?

25 Shigman VOICE: Yes, and he was just enraged by the

press WE 60T

1 [inaudible.] I mean, we just never admitted that they were
2 reporting it the way they were.

3 JCA VOICE: Bill, unless you tell me different, I'm
4 going to let my PRB people go home.

5 Shipman VOICE: ~~They are.~~ *You've heard all* ~~you go ahead and enter all the~~
6 changes we were going to make, unless you feel like we need
7 *them I certainly don't.* to review my [inaudible.]

8 VOICE: No. No.

9 *Ship.* VOICE: We will get this ^{PRINTED} cleared up and signed out

10 --

11 JCA VOICE: Okay. Thanks a lot.

12 VOICE: Thank you. Why don't you just hang on,
13 and I'll let you talk to Ken.

14 *Swartz* VOICE: I'll walk downstairs and call him.

15 VOICE: Okay.

16 VOICE: All right. Bye-bye.

17 VOICE: [Inaudible.]

18 VOICE: I haven't the faintest idea.

19 VOICE: [Inaudible.]

20 [Simultaneous conversation.]

21 VOICE: Jim, Jim, Jim.

22 VOICE: [Inaudible]"the diesel --

23 VOICE: No. Do you want to tell me about the fact
24 that [inaudible] danger --

25 VOICE: No, I'm not talking about smoking at all.

1 *Am* VOICE: Jimmy Paul supposedly counted these starts
 2 for George, and then he provided the information that George
 3 took to the presentation in Atlanta. Do you know how
 4 counted them or where he started?

5 *Swartz* VOICE: No, but he's still here.

6 VOICE: [Inaudible.]

7 *Am* VOICE: I'll try to get him.

8 *Swartz* VOICE: 67 ^{is his program} ~~was the sequence.~~

9 *SWARTZWEILER* VOICE: I'm leaving now.

10 VOICE: ^{*} [Inaudible.]

11 *Am* VOICE: I can't find enough starts so far.

12 *JGA* VOICE: ^{Can you find} ~~Have you tried~~ 18?

13 *AM* VOICE: No. NOT EVEN CLOSE... ODCM GOT THIS.

14 ~~VOICE: I would go back there.~~

15 VOICE: I'm not sure when he started.

16 *JGA* VOICE: They started March 20th.

17 *Am* VOICE: Oh, sure, sure, if you start March 20th.

18 Their words say it completed a comprehensive test program.

19 *JGA* VOICE: ^{George} ~~The words~~ said the comprehensive test
 20 program ended after the third trip.

21 *Am* VOICE: Well, it's bullshit. The under-voltage
 22 testing and all that is all part of the comprehensive --
 23 certainly the under-voltage testing is part of the
 24 comprehensive test program, right?

25 VOICE: On Unit ² X? On Unit B?

1 ^{Am} ~~MR. BROWN~~ On the B unit, the under-voltage
2 testing is certainly part of the comprehensive test program.

3 JGA VOICE: I don't know.

4 ^{Am} VOICE: Well, hell, it was part of the test
5 program that we put in writing in the little schedule we
6 gave to the IIT.

7 JGA VOICE: I personally don't think it matters
8 whether we put in 18 or 40.

9 ^{Am} VOICE: I think it personally matters a hell of a
10 lot because you can't put false information in written
11 correspondence to the WRC.

12 JGA VOICE: Well, in the -- well, I agree with that
13 one. The reason I don't think it matters is because,
14 regardless of how we put it in there, when they come and ask
15 us questions about it, we'll tell them this ^{has} is what our
16 basis for it was. This is why we got 18. If they interpret
17 it differently, we're sorry. ^{We're} ^{put out,} ^{you} Send a Reg-up. You know, ^I ^{don't} ^{agree} ^{with} ^{me} ^{as} ^{that} ^I ^{am} ^{not} ^{talking} ^{about} ⁻⁻

18 ^{Am} VOICE: I'm having trouble counting starts. I
19 can't find very many starts.

20 ^{I'm} ^{WRONG OR RIGHT}
21 JGA VOICE: And ^{I'm} ^{they're} not talking about [inaudible],
22 ^{I'm} ^{PRACTICAL} ^{they're} just talking ^{technical}. The practical side of it is
23 that that what will happen.

24 ^{Am} VOICE: I can't find enough starts. I'm really
25 having trouble finding starts, and ^{MAYBE THEY ARE NOT A} ~~a number of them I don't~~

Tom Hixson

&
Odum

was working a list of starts

1 ~~knew~~ are logged here because --

2 JGA VOICE: They are all logged there.

3 Amy VOICE: They are all logged? ^{There's Jimmy} [Inaudible.]

4 Cash VOICE: [Inaudible.] I went through the log book
5 page by page.

6 Amy VOICE: When did you start? Where did you start
7 at?

8 Cash VOICE: When did I start what?

9 Amy VOICE: You've got the information --

10 JGA VOICE: ^{YOU TOLD GEORGE ABOUT RIGHT? YOU} [Inaudible] the failures, I gave him

11 failures as well as valid starts. ^{Cash} I gave him every one that

12 we -- every start that we have done.

13 JGA VOICE: [Inaudible] one, it started, it failed.

14 Two, it started and ^{PASSED} [Inaudible]. Three, it started and

15 failed. Four, started and ^{PASSED} failed. Is that how you gave it

16 to him, or did you just give him totals.

17 Cash VOICE: Totals.

18 JGA VOICE: Are there 20 starts, three failures?

19 Cash VOICE: I'm not sure if I told him the failures or
20 not. ^{JGA} George was aware of the failures before he ^{TOLD SHIPMAN} [Inaudible]
21 on the phone.

22 Amy VOICE: The information George presented when he
23 was in Atlanta, okay, you got some information together for
24 him.

25 Cash VOICE: Right.

1 VOICE: When did you start counting and what did
2 you count?

3 *Cash* VOICE: 3-20.

4 *Ann* VOICE: You started on 3-20?

5 *Cash* VOICE: Right. For the 1A diesel, in the total
6 numbers included, the three maintenance starts that we did
7 ~~[inaudible] 3-20.~~ *the night of 3-20.*

8 *Ann* VOICE: Okay.

9 *Cash* VOICE: [Inaudible] I can't count.

10 *Ann* VOICE: Okay. And for the B machine --

11 *CASH* VOICE: Everything -- well, it was [inaudible.]

12 *Ann* VOICE: ~~They've gotten~~ *AGAIN,* every start from the very
13 beginning? Okay.

14 VOICE: [Inaudible], you know.

15 VOICE: And so as of that date and for that
16 presentation, then, those were the --

17 VOICE: [Inaudible] date now.

18 *Ann* VOICE: Yeah. Those were the 18 and 19 as of the
19 date that George presented it.

20 *Cash* VOICE: Right.

21 *Ann* VOICE: Okay. Some of those starts resulted in a
22 failure.

23 *JGA* VOICE: *You* ~~we~~ didn't count the failure, though.

24 *JGA* VOICE: The bottom line, *Ann*, is what we wrote in
25 this LER just now, the comprehensive test program is not

1 defined, but basically you have to assume that George told
2 Shipman that it started after the third failure. Now, if
3 you disagree with that --

4 *Am* VOICE: [Inaudible]. The third failure.

5 VOICE: The third failure.

6 *Am* VOICE: I'm not agreeing or disagreeing with
7 anyone. I'm just trying to find out what's been done.

8 JGA VOICE: Well, that's where the numbers come from.

9 That's where the numbers come from.

10 *Am* VOICE: ~~I don't think~~ *IT SOUNDS LIKE* Jimmy counted everything
11 starting the 20th.

12 JGA VOICE: That's what ~~Otem~~ *Odem* did.

13 *Am* VOICE: Okay.

14 *Cash* VOICE: You guys come up with different numbers or
15 something?

16 *Am* VOICE: No. Otem counted up to present, and you
17 counted up to the --

18 JGA VOICE: I think they are different because you
19 counted up to present at the time you did it.

20 VOICE: Up to the 9th, or so, at the time you did
21 it. But you --

22 *Cash* VOICE: What did Rick come up with?

23 JGA VOICE: Twenty-seven and 38, or something like
24 that.

25 *CASH* VOICE: [Inaudible.] *WE WERE RUNNING THE HELL OUT OF THOSE DIESELS.*

1 VOICE: Oh, yeah.

2 VOICE: Okay.

3 *Cash* VOICE: We're going to run them into the dirt is
4 what we're going to do.

5 VOICE: [Inaudible.]

6 *WGA* ~~*Am*~~ VOICE: Where do you want to go with this?

7 *Am* VOICE: There's no place to go with it. We have
8 already -- Harrison has already submitted a letter stating
9 the same thing the LER states. Right?

10 *JGA* VOICE: Yeah.

11 *Am* VOICE: All we did is state the same thing in this
12 LER that Harrison already stated in the letter.

13 *JGA* VOICE: And George has an argument on why that's
14 correct.

15 *Am* VOICE: And that's the same thing that George
16 presented at the meeting.

17 *JGA* VOICE: George has an argument on why that is
18 correct, and Tim McCroy called and said, you know, Call
19 Brockwood, and Brockwood understood what that meant.

20 [Pause.]

21 *JGA* VOICE: *DO YOU NEED ANYTHING FROM ME*
[Inaudible.] *BEFORE I LEAVE?*

22 *Am* VOICE: No, I -- *DO YOU WANT TO BUY A BUNCH OF*
BINGO TICKETS?

23 ~~VOICE: [Inaudible.]~~

24 VOICE: I don't know how many I bought.

25 [Laughter.]

1 VOICE: One? That's probably enough, isn't it?
 2 Enough to win, right? Is that enough to win?

3 VOICE: I imagine that's really enough to win.

4 VOICE: Okay.

5 VOICE: [Inaudible]"right now?

6 VOICE: [Inaudible.]

7 VOICE: Oh, okay.

8 *Swartz* VOICE: Yeah. It is Saturday night and I'll even
 9 reconfirm that, if they want me to.

10 VOICE: No, that's okay.

11 VOICE: All right.

12 VOICE: Okay. Bye.

13 VOICE: Bye-bye.

14 VOICE: [Inaudible.]

15 VOICE: No. He just was wondering when

16 [inaudible.]

17 VOICE: [Inaudible.]

18 VOICE: How's the turbine test [inaudible]? Have
 19 any idea?

20 *Swartz* VOICE: Yes, they were -- when I came [inaudible],
 21 I was down in [inaudible]"and John's office. They were on
 22 their way to 100 RPM from 1800.

23 *Am* VOICE: They did the 1800 test, and they excited,
 24 and they did a couple percent of [inaudible], ^{negative segment} and had all of
 25 the [inaudible.] ^{data is what I heard}

1 *Smart*² VOICE: That's what I heard. Yeah. I think the
2 bulk of the testing actually -- the testing -- I think they
3 were just doing minor testing at 1800. The bulk of the
4 testing is the ramp up with a max negative.

5 *Am* VOICE: Yeah. They had gone to like one -- two-
6 and-a-half negative sequence parameters, something like
7 that, at 1800.

8 VOICE: [Inaudible.]

9 *Am* VOICE: Yeah. Well, when I talked to them last,
10 they had done two-and-a-half percent, and then I guess they
11 were ramping that up to like five percent, and then what do
12 we do? Then we come back to 100 and do five percent all the
13 way up, or something like that?

14 *Smart*² VOICE: I'm not sure five percent is --

15 VOICE: Or whatever the max is.

16 VOICE: As specified by maximum, you know,
17 expectation.

18 VOICE: Okay.

19 VOICE: And then you come up to like 1925.

20 VOICE:

21 VOICE: Then they go to 1950 or 1925 or something,
22 right?

23 *Smart*² VOICE: And then they start the 1900 to 1700 to
24 1900 to 1700 to 1900, and then they give up. [Inaudible]
25 look at with that [inaudible.]

1 VOICE: Yeah. Okay.

2 VOICE: And then we go [inaudible.]

3 VOICE: Good. Anything else?

4 VOICE: [Inaudible.]

5 *Am* VOICE: I don't know. Horton didn't think it
6 would. Horton thought they would --

7 VOICE: I don't think they will, either.

8 *Am* VOICE: Horton thought they'd get done quicker
9 that way. If they're into it, and now it looks like they're
10 into it, and, you know, most of the problems we had were
11 just problems with running the turbine.

12 No, these weren't really test problems; these were
13 problems that we would experience tomorrow when we tried to
14 do the turbine if we hadn't done the test.

15 *Sumt* VOICE: Yeah. I think those [inaudible] minor
16 incident is that first [inaudible.]

17 VOICE: The ^{mutual} nuclear over-current was what was, I
18 think, a test condition issue, and the [inaudible] figured
19 that out in a heartbeat.

20 VOICE: [Inaudible] "vast majority [inaudible.]

21 VOICE: Oh, yes. I would say the problems and the
22 valve problems, and those types of things.

23 VOICE: The other one, I think, is one of the
24 load. I could not see any progress on those. [Inaudible.]
25 We are working on [inaudible.]

1 VOICE: Those are the same. Same status. Have we
2 done anything [inaudible.]

3 VOICE: [Inaudible.]

4 VOICE: I'm just going to have them leave
5 [inaudible.]

6 VOICE: That's about all I have. [Inaudible]"and
7 Birmingham.

8 VOICE: A city called [inaudible.]

9 VOICE: Yes. That's [inaudible] Shipman, but
10 that's [inaudible.] The start. We don't know anymore about
11 the start?

12 VOICE: Diesel start?

13 VOICE: Yeah.

14 VOICE: Well --

15 VOICE: Oh, I have that. I already have that.

16 VOICE: You're not a copy?

17 VOICE: What?

18 VOICE: You're not a copy?

19 VOICE: That's right. Nobody is copied.

20 VOICE: I know.

21 *Am* VOICE: That's why we make thousands of them.

22 [Laughter.]

23 VOICE: [Inaudible.]

24 *Swartz* VOICE: All we really have confirmed is that a
25 test circuit problem will not impact performance, which is

1 the only thing I asked him to do [inaudible.]

2 [Pause.]

3 VOICE: Great.

4 VOICE: [Inaudible] the only thing that deals with
5 it.

6 VOICE: [Inaudible.]

7 VOICE: Do you [inaudible.]

8 VOICE: [Inaudible] negative things such as
9 grounding, and what they're attempting to [inaudible].
10 They're testing to determine any degree of resonance that we
11 might have in the turbine due to our machine's
12 configuration, and so they are exciting the system with this
13 negative sequence baloney, and then they're going to
14 diiinng the system with the outer failure synchronization,
15 okay?

16 Basically what they're doing is you got the big
17 machine up there, and they're worried about these last stage
18 in duct stress problems, okay? What they're doing is
19 they're essentially shaking the machine electrically by
20 negative phase sequence occurrence. That's a steady-state
21 test, okay? And then the out-of-phase synchronization is a
22 dynamic ringing type test where, you know -- you think of
23 something mechanical and you're wondering if it's got some
24 resonant vibration. Well, you can put a shaker on it and
25 shake it at different frequencies, you know, and different

1 magnitudes and see if you have a response, or you can whack
2 it with a hammer and see what kind of ringing frequencies,
3 you know, you get out of it.

4 That's basically what they're doing. And then
5 they're checking a series of frequency range by varying the
6 RPM of the machine, you know, over certain ranges. So
7 basically this is a vibrational test using electrically-
8 induced stimuli. Okay? They're testing the amplified range
9 by inducing the vibration electrically, and that's all
10 they're doing. Then they determine what the resonant ranges
11 are, and decide if we have resonant ranges and if we do,
12 then [inaudible] various recommendations for [inaudible.]"

13 VOICE: Now, I would assume, my guess is if the
14 resonant range defined is sufficiently away from normal
15 operating [inaudible], nothing will have to be done.

16 VOICE: If it's more than two, plus or minus two
17 hertz from 60, then there's nothing, okay? If it's like
18 greater than one, plus or minus one, but less than two
19 hertz, then there's monitoring, and if it's less than one,
20 then there's physical changes, though, within it. That's
21 kind of the guideline.

22 ***END TAPE NO. 58, SIDE A -- SIDE B NOT RECORDED***

23

24

25

1 ^{Am}
 2 ~~MR. BROWN:~~ On the B unit, the under-voltage
 3 testing is certainly part of the comprehensive test program.

4 JGA VOICE: I don't know.

5 ^{Am} VOICE: Well, hell, it was part of the test
 6 program that we put in writing in the little schedule we
 7 gave to the IIT.

8 JGA VOICE: I personally don't think it matters
 9 whether we put in 18 or 40.

10 ^{Am} VOICE: I think it personally matters a hell of a
 11 lot because you can't put false information in written
 12 correspondence to the NRC.

13 JGA VOICE: Well, in the -- well, I agree with that
 14 one. The reason I don't think it matters is because,
 15 regardless of how we put it in there, when they come and ask
 16 us questions about it, we'll tell them this ~~his~~ is what our
 17 basis for it was. This is why we got 18. If they interpret
 18 it differently, we're sorry. ^{W-H} ^{WV} ^{cut.} ^{you} Send a ~~Reg-up~~. You ~~know~~, ~~I'm~~
^{don't agree with me on that}
~~not talking about --~~

19 ^{Am} VOICE: I'm having trouble counting starts. I
 20 can't find very many starts.

21 JGA VOICE: And ^{I'm} ~~they're~~ not talking about [inaudible],
 22 ^{I'm} ~~they're~~ just talking ^{PRACTICAL} ~~technical~~. The practical side of it is
 23 that that what will happen.

24 ^{Am} VOICE: I can't find enough starts. I'm really
 25 having trouble finding starts, and ^{MAYBE THEY ARE NOT A} ~~a number of them~~ I don't

1 TAPE 58. PAGE 8. LINE 7 THROUGH PAGE 12. LINE 8

2 Aufdenkampe: Well, the way -- Alan Mosbaugh just walked in, George,
3 so I'll put you on the speaker. The way my people came
4 up with greater than 20 starts is they took the 19 and
5 18 starts and, based on the April 9th letter, and they
6 went and checked and found out how many starts they had
7 subsequent to April 9th. And that's why you can say
8 greater than 20.

9 Bockhold: I think you can say greater than 20. You know, we even
10 added more starts recently. We had a start last -- the
11 other night.

12 McCoy: We need to be sure that we know the number of starts
13 after we've completed the comprehensive control test
14 program.

15 Aufdenkampe: I do have people right now going out through -- my
16 people going out through the RO's logs --

17 Bockhold: From my numbers that I presented at the conference, they
18 were verified correct by Jimmy Paul Cash who went
19 through the operator's logs.

20 McCoy: You ought to use those numbers.

21 Bockhold: Okay. So we'll say greater than those numbers that were
22 used in the conference.

23 McCoy: Those numbers you used in the conference were after they
24 had completed the comprehensive test of the control
25 systems on each diesel.

26 Bockhold: That is correct. Those numbers were not before that
27 time.

28 Stringfellow: Let me make sure I'm clear. Do we want to say, "Since
29 3/20/90, DG1A and DG1B have been subjected to a
30 comprehensive test program? Do we want to say that kind
31 of stuff, or do we want to just say --

32 Bockhold: Yes, you can say that.

33 McCoy: That's pretty clear.

34 Mosbaugh: I don't think they better look at those logs.

35 Voice: Right.

36 Voice: (inaudible)

37 Voice: (inaudible)

1 Mosbaugh: Yeah he's done, we're done with Hairston on that.
2 Voice: (inaudible)
3 Mosbaugh: Hairston's happy with that one.
4 Voice: The wording was (inaudible).
5 Mosbaugh: He's going to add something. There's a new sentence
6 going in front of --
7 Shipman: Eighteen and 19? What did you have in your
8 presentation, George? Seventeen and 18 or 18 and 19?
9 Bockhold: Eighteen and 19.
10 Shipman: Could we say greater than 18, we (inaudible) more than
11 18 times.
12 Bockhold: Greater than 18 would be good.
13 Shipman: Fine.
14 McCoy: It wouldn't be more than 18 on one of them. It would be
15 18.
16 Voice: (Inaudible)
17 Shipman: Okay. I understand, John and Al, if Al just walked in,
18 I understand that George just got off the phone with Jim
19 Schwartzwelder and the operator and he is satisfied now
20 with the -- what the operator did when he walked in the
21 room.
22 Mosbaugh: Yeah, I was down there, Bill, and I just ran up here.
23 Yeah, we're done with that one.
24 Shipman: Apparently -- I don't know how George knows all this
25 stuff, but apparently he -- somehow he knew more about
26 it than you and I did.
27 Voice: Well, he went down to the plant and talked (inaudible).
28 Mosbaugh: Well, no, I don't -- not really.
29 Shipman: It sounds like to me the operator said he looked at
30 something other than the enunciators.
31 Mosbaugh: He confirmed with the operator that the operator did a
32 cursory review of instruments. And the operator's
33 comfortable with, you know, some statement that's kind
34 of like that.
35 Shipman: He didn't lead the operator, did he?

1 Mosbaugh: I don't think so.
2 Aufdenkampe: Not very far.
3 Shipman: Well, he don't need to lead him at all. The guy might
4 get an opportunity to testify at some time about that.
5 So you all don't let Mr. Hairston lead the operator.
6 Hairston: I'm sure that we put words in his mouth.
7 But, no, he said he read them, because he had
8 (inaudible).
9 Shipman: Okay.
10 Hairston: And Jim explained to him the reason it was put in there,
11 because it ties in later, and Jim said that's the
12 reason. It wasn't to make you think that the operators
13 just went down there and closed his eyes and hit the
14 button, but the operator said he (inaudible). Actually,
15 the operator said that he did more. I've (inaudible)
16 several (inaudible) the operator says he looked at all
17 the gages, and he didn't see any problems on them gages.
18 He said walking by and he didn't see any mechanical
19 problems. He said he didn't look at it closely, it was
20 dark, but, you know, he didn't see any rods sitting out
21 on the floor. But, you know, what we put in there is
22 less than what he verbalized to me.
23 Shipman: Okay. I know how you are, and I'm just trying to make
24 sure we --
25 Hairston: I wouldn't lead nobody, I just want to make sure you
26 know what the operators would say.
27 Shipman: Okay. All right.
28 Hairston: Of course, they'd probably say, well, that's just what
29 the shift supervisor'd tell us to do.
30 Shipman: Let's see. What other questions do we got? We got them
31 start things straightened out.
32 Stringfellow: The other question we had Bill, was the --
33 Hairston: We got the starts, so we didn't have no...we didn't have
34 no trips.
35 Shipman: No, not, not...
36 McCoy: I'll testify to that.
37 Shipman: Just disavow. What else did we have, Jack?

EXHIBIT 36

1 TAPE 58, PAGE 20, LINE 11 THROUGH PAGE 26, LINE 10

2 Shipman: -- and that they should not be included because they
3 were part of the return to service of the diesel coming
4 out of the overhaul, and this count only included those
5 starts after we had calibrated all these sensors. John,
6 you heard George Bockhold's logic.

7 Mosbaugh: Yes, so, but what I'm is, let's say we had ten starts on
8 the machine between the 20th and the time we declared it
9 operable or completed our logic testing, you know, and
10 then interspersed in there on the -- maybe the third,
11 fifth and sixth starts were failures, you know, then I
12 think what we're saying is we would start counting at
13 the ten point, if that was an example.

14 Shipman: Right. We would discount those starts prior to when we
15 did that calibration.

16 Mosbaugh: So we want to start it after we completed the logic, the
17 logic test?

18 Shipman: What I understood that George had done was started after
19 we completed the recalibration of all the
20 instrumentation. That's when we ought to have, you
21 know, as far as that instrumentation is concerned,
22 that's when we ought to have had valid set points and
23 good instruments. That's what we're trying to show,
24 that the unit starts -- when that's been done correctly,
25 that the unit starts reliably, starts and runs reliably.
26 Does that make sense, and can we get to that data?

27 Mosbaugh: We have the data. The question is, is what's that date
28 and time? You know, as soon as we get to the point at
29 which we want to start counting, we can get the count
30 pretty quick.

31 Aufdenkampe: Well, not pretty quick, but --

32 Shipman: How do we get to that point, Al?

33 Mosbaugh: You know what? I think part of the thing we did is we
34 went in and, you know, we changed out a bunch of
35 switches, we went in and then did logic tests, we went
36 into the undervoltage tests, and then we finally ran the
37 surveillance on the machine, and at that point that we
38 completed the surveillance on the machine, we called the
39 machine operable. You know,...so the question again
40 comes back to at what point are we going to start
41 counting.

EXHIBIT 36

1 Shipman: Well, George said he started counting after we had
2 completed the instrumentation recalibration, okay? So
3 that's one point we can start counting, if we can define
4 that point. I can't define it. I don't know when that
5 was. Somebody generated the set of data that generated
6 the numbers 18 and 19 to George on that basis.

7 Aufdenkampe: That was Jimmy Paul Cash.

8 Mosbaugh: Jimmy Paul did. Let me go downstairs and talk to Jimmy
9 Paul and see...

10 Aufdenkampe: Okay. I'm trying to get Schwartzwelder up here.

11 Mosbaugh: Schwartzwelder? Okay.

12 Shipman: Okay. One other thing we could do, Al, you know, saying
13 we still continue to have problems with trying to define
14 this. We could back away from this completely, and
15 change this to say how many starts we've had since we
16 declared the diesel operable.

17 Mosbaugh: Yes, that --

18 Aufdenkampe: That would be more --

19 Mosbaugh: That's easy to define. We just go into OPS LCO's and
20 find out when they cleared the LCO and we'll know that
21 point real easy. That's an easy point to find. I think
22 the other point we'll have to find by talking to Jimmy
23 Paul Cash.

24 Shipman: The problem with that is that that number is going to be
25 significantly less, I think, than what George told
26 Mr. Ebnetter, and, you know, it's going to create a
27 selling job for me, I think, but eventually, that the
28 only way we can tell a valid story that, you know, we
29 can defend if somebody calls Alan Mosbaugh, Bill Shipman
30 and John Aufdenkampe to testify. That's the story I
31 want to tell.

32 Mosbaugh: Well, I think -- you know, let me try some logic here.
33 We have these two failures, and now John says there are
34 three failures. You know, we're kind of saying, hey,
35 those are not valid failures, you know, because we were
36 coming out of maintenance on the machine and had yet to
37 declare it operable. That's how and why we're
38 discounting those failures.

39 Shipman: So we have yet to determine that coming out of an outage
40 on the machine, we had to go and basically do a complete
41 set of recalibrations of the instruments. That was the
42 logic that George used, not that we were declaring it
43 operable, because we obviously hadn't declared it
44 operable.

1 Mosbaugh: Well, one of those failures was when we were doing the,
2 you know, an eight-hour loaded run. I would sure hope
3 to hell think that we had calibrated the instruments
4 before we did an eight-hour loaded run.

5 Shipman: Well, not according to George. We hadn't recognized the
6 need to go back and redo all of them then. Is that not
7 what he said, John Aufdenkampe?

8 Aufdenkampe: That's what I understood.

9 Mosbaugh: I'm just thinking from the standpoint of testing logic,
10 you know, you're going to do an eight-hour loaded run on
11 the machine, you know, obviously the component testing
12 ought to be done at that point.

13 Shipman: Well obv..., you know, on 1A obviously we thought we had
14 done everything we needed when we returned it to
15 service.

16 Aufdenkampe: It was operable.

17 Mosbaugh: Yeah. It was declared operable.

18 Shipman: We found out that we hadn't, and George is saying, oh
19 oh, hey, gang, from the time we realized that 1A or 1B,
20 we had to do a complete recalibration and make sure we
21 had our facts together on all the instruments, we had
22 many many starts. I'm not trying to..., I'm trying to
23 defend George and --

24 Aufdenkampe: Well, you know, the bottom line is on the B diesel, we
25 had done major maintenance on it. We were in the
26 process of testing to make sure it was working right.
27 During that testing process, we had it fail apparently
28 three times.

29 Once we got all the bugs worked out of it -- Since the
30 point we got all the bugs worked out of it that we had
31 -- we had -- and I'm kind of guessing, but uh, 27
32 starts, because I don't know where the three failures
33 are in the sequence of 27 starts, but we had X number of
34 starts. And George's argument to that is, after we got
35 all the bugs worked out, we had 18 starts.

36 Shipman: What he's trying to do is he's trying to show by data
37 that once you get the bugs worked out, like you say,
38 John, the diesel works fine.

39 Aufdenkampe: That's right. And that's regardless of the point of
40 declaration of operability or not.

41 Shipman: Fine. Right.